

OKLAHOMA CITY AIR LOGISTICS CENTER ENGINEERING

TEAM TINKER

**DATA
MANAGEMENT**
24-25 Mar 2004



U.S. AIR FORCE

OC-ALC/LGLDO

Integrity - Service - Excellence



ENGINEERING DATA MANAGEMENT OVERVIEW



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- **EDMO RESPONSIBILITIES**
- **DIRECTIVES**
- **TOOLS**
- **USE OF TOOLS**
- **PEOPLE INTERFACE**
- **CURRENT PROJECTS**



ENGINEERING DATA MANAGEMENT (EDMO)



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- **ENGINEERING DATA MANAGEMENT OFFICER (EDMO) Responsibilities**

- **INVOLVED IN WEAPON SYSTEMS ACQUISITION**
 - INSURE engineering data in compliance
 - OVERSEE engineering data acceptance
 - SECURE acceptable engineering data for reprourement & maintenance
- **RECEIVE engineering data for the Air Force**
 - Contractual requirements enforced
 - Over-the-counter accepted by policy directive
 - Requests from other parties (engineers, screeners, etc.)
- **INSPECT engineering data before storage**
 - Format and label with proper identification
 - Legibility questioned and rejects noted
 - Discrepancies tracked for contractor action
- **MAINTAIN engineering data updated**
 - Assure Compliance of Existing Data prior to release
 - Maintain Legacy Data



ENGINEERING DATA MANAGEMENT (EDMO continued)



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EDMO Responsibilities

- **“Cradle to Grave” Management**
 - Monitor Quality of Engineering Data
 - Attend Conferences, Audits, Reviews
 - Create and Maintain Engineering Data Management Plan (EDMP)
 - Maintain Engineering Data Activity Records File (EDARF)
 - Work with Program/Configuration Managers, Engineers, Contracting Officers, Logistics Personnel, End Item Users, Weapon Systems Contractors and their Vendors



ENGINEERING DATA MANAGEMENT (EDMO continued)



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EDMO Responsibilities (cont)

- **Data Call (AFLC Form 365)**
 - Determine and identify engineering data requirements
 - Submit requirements for Statement of Work/Statement of Objectives (SOW/SOO)
- **Data Item Description (DID)**
 - Tailor to meet requirements



ENGINEERING DATA MANAGEMENT (EDMO continued)



EDMO Responsibilities (cont)

- **Contract Data Requirements List - CDRL**
 - Submit data requirements per applicable FAR Clauses, DFAR Clauses, AFFAR Clauses, etc.
- **Data Requirements Review Board (DRRB)**
 - Board “Scrubs” requirements to economize
 - EDMO defends engineering data requirements
- **Guidance Conference**
 - Ensure all parties know the contract requirements
 - Disagreements over interpretation brought to attention of procuring activity’s program office

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EDMO Responsibilities (cont)

- **In Process Review (IPR)**
 - **Prevent** deviations from established format
 - **Insure** previous discrepancies are not recurring
 - **Enforce** correction of data discrepancies
 - **Secure** Contractor fulfillment of data requirements
- **Functional Configuration Audit/Physical Configuration Audit (FCA/PCA)**
 - Participate in PCA to compare drawings with end items' "form, fit, and function"



ENGINEERING DATA MANAGEMENT (EDMO continued)



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EDMO Responsibilities (cont)

- **Final Review and Acceptance**
 - After Letter of Technical Acceptance (by engineer)
 - Review Engineering Data for compliance
- **DD Form 250**
 - Signed by EDMO as “acceptance of receipt” (not technical adequacy)



ENGINEERING DATA MANAGEMENT DIRECTIVES



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- **DIRECTIVES category V repository**

- AFI 21-401 Engineering Data Storage, Distribution and Control
- AFI 21-403 Acquiring Engineering Data
- AFPD 21-4 Engineering Data maintenance



ENGINEERING DATA MANAGEMENT TOOLS



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- **10M+ IMAGES IN RESPOSITORY**
 - 4.5M in JEDMICS
 - OVER 6M+ in Pending Database
 - FROM APERTURE CARD SCANNING INITIATIVE
 - No more aperture cards on hand
 - FREED 3400 SF
- **48K+ STABLE BASE DATA**
 - Receiving some Gerber Data
 - Other vector formats (future)



ENGINEERING DATA MANAGEMENT TOOLS (continued)



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- **Integrated Data Information Manager (IDIM)**

- **IDIM 600+ DIGITAL EDARF**

- FREED UP 800 SF
- No paper files

- **IDIM electronic inspection**

- **Using ImageMax digital data is:**

- Loaded from CDs, e-mail, or Scanned
- Inspected – FORMAT, Legibility & Completeness
- Migrated – to JEDMICS

- **JEDMICS – receives data from ImageMax through IDIM**



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- **EDARF in IDIM**

- Digitize data call & all corresponding data (pdf or tif)
 - Request letter, response letter,
 - CDRL, DID, etc
 - Contract (pdf)
 - Conferences - IPRs, Minutes, etc (pdf or tif)
 - Delivery documentation (not data)(pdf)
 - Correspondence and memos(pdf or tif)

- **IMAGE DELIVERY using ImageMax** (launched by IDIM)

- Import images
- Inspect images
- Transfer images into JEDMICS

- **JEDMICS**

- Maintain images
- Available to DoD & other customers

pdfs are scanned using Adobe (larger documents)
tifs are scanned in using small flat scanners (small documents)



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- **IDIM** (asset manager)
 - **Order Data Process**
 - 1147 requests
 - 761 request (from screeners)
 - **Access to regulated data**
 - Limited access to qualified contractors
 - **Product Directorate review of assets availability**
 - Engineers
 - Item Managers
 - Equipment Specialist
 - Some Shop Personnel

**Historical tracking of
assets**



ENGINEERING DATA MANAGEMENT INTERFACES



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- **Data Managers**
- **Drafting/Engineering**
- **Product Engineers**
- **Program Managers**
- **Contracting Officers**
- **Equipment Specialists**
- **Shop Floor Mechanics**
- **Contractors and their vendors**
- **Defense Logistics Agency (DLA)**



ENGINEERING DATA MANAGEMENT CURRENT PROJECTS



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- **DISTRIBUTION STATEMENTS**
 - Blank "Distribution Statements"
 - Limit Access
 - Address as required
 - Address to Program Office
 - Prior to input
 - Prior to release
- **SETTING UP VECTOR files**
 - Importing to JEDMICS (future)
 - Keeping it in IDIM (currently)
- **WORKING COMMON JEDMICS/OSP DATA**
 - Eliminating storage on both
 - Processing through IDIM
- **RE-WORKING IDIM TO JEDMICS INTERFACE**
 - JEDMICS API becoming obsolete
 - Replacing API interface with OAI
- **PLANNING TO IMPLEMENT FULL SCALE WEB JEDMICS**

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